

In response to the Office Action mailed on April 23, 1999,  
Applicant respectfully submits the following amendments and  
remarks:

IN THE CLAIMS

Please cancel claims 3, 10 and 22. In addition, Please  
amend the claims as follows:

1 1. (Amended) A dual band radio receiver comprising:  
2 a local oscillator configured to generate a Local  
3 Oscillator (LO) signal;  
4 a first two way switching device responsive to a base band  
5 controller for switching between a first Radio Frequency (RF)  
6 signal received from a first front end receiver and a second RF  
7 signal received from a second front end receiver;  
8 a first mixer device configured to receive said LO signal  
9 and [a] said first [Radio Frequency (RF)] RF signal included  
10 within a first band and responsively to output a first  
11 Intermediate Frequency (IF) signal;  
12 a second mixer device configured to receive said LO signal  
13 and [a] said second RF signal included within a second band and  
14 responsively to output a second IF signal;  
15 a second two way switching device responsive to said base  
16 band controller for switching between said first and second IF  
17 signals; and  
18 wherein said local oscillator is configured to operate  
19 within a third band located between said first and second bands  
20 and is responsive to said base band controller.

1 2. (Amended) The dual band radio receiver of claim 1 further  
2 comprising first and second IF filters [and a switching device]

B  
3 coupled between [thereto, wherein said first and second IF  
4 filters are coupled to] said first and second mixer devices and  
5 said second two way switching device, respectively.

1 8. (Amended) A system comprising:  
2 a transmitter circuit; and  
3 a dual band radio receiver coupled to said transmitter,  
4 said dual band radio receiver including  
5 a local oscillator configured to generate an LO  
6 signal [;]  
7 a first two way switching device responsive to a  
8 base band controller for switching between a first Radio  
9 Frequency (RF) signal received from a first front end receiver  
10 and a second RF signal received from a second front end  
11 receiver,  
12 a first mixer device configured to receive said LO signal  
13 and [a] said first RF signal included within a first band and  
14 responsively to output a first IF signal,  
15 a second mixer device configured to receive said  
16 LO signal and [a] said second RF signal included within a  
17 second band and responsively to output a second IF signal,  
18 a second two way switching device responsive to  
19 said base band controller for switching between said first and  
20 second IF signals, and  
21 wherein said local oscillator is configured to  
22 operate within a third band positioned between said first and  
23 second bands and responsive to said base band controller.

1 8. (Amended) The system of claim 8 further comprising first  
2 and second IF filters [and a switching device] coupled between  
3 [thereto, wherein said first and second IF filters are coupled

*B2*  
*B3*  
4 to] said first and second mixer devices and said second two way  
5 switching device, respectively.

*B3*  
13

1 15. (Amended) In a dual-band radio receiver configured to  
2 receive Radio Frequency (RF) signals within first and second  
3 bands, a method for converting an RF signal into an IF signal,  
4 the method comprising the steps of:  
5 a) determining whether said RF signal belongs to one of a  
6 first and a second bands; and  
7 b) if said RF signal belongs to one of said first and second  
8 bands, generating said IF signal in response to a base band  
9 controller by mixing said RF signal with a LO signal belonging  
10 to a third band located between said first and second bands.

*B3*  
11  
1 21. (Amended) A method for providing a dual band radio  
2 receiver, the method comprising the steps:  
3 providing first and second front end receivers ;  
4 providing first and second mixers;  
5 providing a base band controller;

6 providing a circuit configured to determine whether an RF  
7 signal input thereto from the first or second front end  
8 receivers belongs to one of a first and second bands, said  
9 circuit coupling said RF signal to one of said first and second  
10 mixers if said circuit determines that the RF signal belongs to  
11 one of a first and second bands respectively and is responsive  
12 to said base band controller; and

13 coupling a local oscillator to said first and second  
14 mixers, said local oscillator configured to generate signals  
15 within a third band that is positioned approximately mid-way  
16 between said first and second bands and wherein said local  
17 oscillator is responsive to said base band controller.